1	2	3	4	5	6	7	8
Punjab	4	4	127.42	11.8	33.52	62.9	–
Rajasthan	17.73	4.95	73.32	246.16	734.69	396.82	–
Tamil Nadu	9.63	4.15	198.67	107.23	280.06	253.27	26.20
Uttar Pradesh	26.6	175.7	121.96	174.99	384.84	171.85	15.96
West Bengal	6.85	41.17	76	325.81	681.95	341.78	–
Chandigarh	0	0	0.08	0.08	0	0	7.28
Pondicherry	0.08	1.73	0	5.09	35.56	2	–
A and N Islands	0	0	0	0	37.48	0	–
Special Category States							
Himachal Pradesh	0.3	88.3	465.2	1.77	517.51	505.62	211.5
Jammu and Kashmir	0.1	173.34	326.5	3.2	466.4	210.33	19.08
Uttarakhand	7.95	2.78	672.12	273.23	1196.06	1246.33	–
Assam	0	20.22	256.8	50	121.6	0	–
Arunachal Pradesh	0	0	194.8	34.81	294.4	280.6	18.12
Manipur	0	0	186	24.98	32.41	15.95	–
Meghalaya	0.08	0.08	594.3	154.76	353.7	424.78	–
Mizoram	15.36	43.58	255.84	110.71	84.17	100.9	88.34
Nagaland	0	0	162	6.98	90.8	94.9	56.98
Sikkim	0	26	90.33	0	219.965	110.14	–
Tripura	0	0	496.8	1.71	45.4	0	56.51
Others							
IREDA/Banks/ Others	571	776.6	3263.1	3465.76	1013.1	1706.03	1765.05
TOTAL:	811.6	1738.87	8831.534	5812.43	8608.955	7485.31	2477.46

Energy generation by bio-gas, solar and wind power

2218. MS. MABEL REBELLO: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the details regarding the quantum of energy generated by bio-gas, solar and wind sources in the country during the last three years, date-wise; and

(b) the details of physical allocation and expenditure for developing these alternate sources of energy in Jharkhand, Chhattisgarh and Madhya Pradesh during the last five years; State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR) (a) Programme-wise and year-wise details of achievements under biogas, solar and wind energy programmes during the last 3 years, *i.e.*, 2004-05, 2005-06 and 2006-07 are given in the Statement (*See* below).

(b) State-wise details of physical and financial achievements under biogas, solar and wind energy programmes during the last 5 years, *i.e.*, 2002-07 are given in Statement-II and III respectively.

Statement-I

Programme-wise and year-wise details of achievements during the last 3 years under biogas, solar and wind energy programmes

Sl. No.	Name of the Scheme/Project/Programme	Units	2004-05		2005-06		2006-07	
			Targets	Achievements	Targets	Achievements	Targets	Achievements
1	Biogas Plant	Nos. in lakhs	1.00	1.09	0.66	0.61	1.00	0.84
2	Solar Photovoltaic (SPV) Programme							
	i. Home Lighting System	Nos.	.0	34844	42000	9727	60000	23033
	ii. Lantern	Nos.	15000	21577	100000	885	30000	31000
	iii. Street Lighting System	Nos.	0	1650	0	367	1250	4659
	iv. Power Plant	kWp	0.00	79.70	350.00	0.00	400.00	0.00
3	SPV Pump	Nos.	0	366	500	222	300	66
4	SPV Power	MW	0.00	0.03	0.00	0.03	0.00	0.00
5	Solar Water Heating System	m^2 collector area	100,000	150,000	400,000	400000	400000	400000
6	Solar Cooker	Nos.	35,000	20,000	35,000	19769	22000	16209
7	Wind Power	MW	300.00	1111.55	450.00	1716.20	1000.00	1742.10
8	Wind Pump	Nos.	100	47	100	96	100	69
9	Hybrid System	kWp	150.00	40.00	150.00	99.04	150.00	123.69

m^2 = metre square; kWp = kilowatt peak; MW = megawatt

Statement-II

State-wise details of physical achievements under biogas, solar and wind energy programme during last 5 years (2002-07)

Sl. No.	State/UT	Biogas Plants	Solar Photovoltaic Systems				SPV	Solar	Solar	Wind Power	Water Pumping	Aerogen/ Hybrid
		(Nos.)	SLS (Nos.)	HLS (Nos.)	SL (Nos.)	PP (kWp)	Pumps (Nos.)	Cookers (Nos.)	Power (MW)	(MW)	Wind Mills (Nos.)	systems (kW)
1	Andhra Pradesh	77069	524	609	1275	2.00	10	944		29.30	4	
2	Arunachal Pradesh	624	183	1580	5000	1.50	15		0.03			
3	Assam	298		3083								
4	Bihar	1083	250	1990			11				4	
5	Chhattisgarh	22138	172	3416			56	86				
6	Goa	402	242	222			10					39.20
7	Gujarat	33796	240	3366			42	67174		455.20	367	10.00
8	Haryana	6080	2479	12983			201	7116				
9	Himachal Pradesh	1041	1600	6000				1851				
10	Jammu and Kashmir			6330	11761		21					
11	Jharkhand	694	485	3933								
12	Karnataka	47625	270	4785			117			751.80	5	2.20
13	Kerala	12724					73	41		0.00		
14	Madhya Pradesh	50959	340	1148			9	352		34.10		
15	Maharashtra	47343	103	104			39	1305		1087.40		403.45
16	Manipur	266		1000								
17	Meghalaya	727	100	4200	20000		14					

18	Mizoram	752		1400								
19	Nagaland	975										
20	Orissa	42605	154	1548			4	267				
21	Punjab	9907	1271	1750			288		0.23			
22	Rajasthan	371	159	22087			15	78	0.1	453.70		
23	Sikkim	1134	35	1495		2.00						10.00
24	Tamil Nadu	7945	400				69	175		2615.80	7	
25	Tripura	482		562			15					
26	Uttar Pradesh	34352	306	6200			517	9492				
27	Uttaranchal	2154	714	16061	29496		16	957	0.05			
28	West Bengal	62708	650	11625								18 00
29	Andaman and Nicobar								0.1			
30	Chandigarh											
31	Dadra and Nagar Haveli											
32	Daman and Diu						3					
33	Delhi											
34	Lakshadweep								0.35			
35	Pondicherry								0.03			
	TOTAL:	565040*	10677	122766**	67532	5.50	1573***	95838****	0.89	5427.30	387	482.85

SLS = Street Lighting System; HLS = Home Lighting System; SL = Solar lantern; PP = power plant; MW = megawatt; kW = kilowatt; kWp = kilowatt peak; Nos. = numbers

* Includes 98786 biogas plants installed through KVIC/NGOs in different States.

** Includes 5289 HLS distributed through IREDA/NGOs in different States.

*** Includes 28 pumps distributed through IREDA/NGOs in different States.

**** Includes 6000 solar cooker distributed through NGOs in different States.

Statement-III

State-wise financial achievements on development of biogas, solar and wind energy during last 5 years (2002-07)

(Rs. in crore)

Sl. No.	States/UT	Biogas Plants	Solar Photovoltaic	Solar Cookers	Wind Power	Small Wind Energy Systems	Total
1	2	3	4	5	6	7	8
1	Andhra Pradesh	25.23	2.71	0.14	4.20	0.01	32.28
2	Arunachal Pradesh	1.77	3.87	0.18			5.82
3	Assam		4.07				4.07
4	Bihar		0.32			0.01	0.33
5	Chhattisgarh	6.23	2.12	0.25			8.61
6	Goa		0.32			1.15	1.47
7	Gujarat	11.84	4.21	0.43		1.07	17.55
8	Haryana	1.17	9.13	0.62	0.02		10.93
9	Himachal Pradesh	0.60	8.02	0.02			8.64
10	Jammu and Kashmir		6.61				6.61
11	Jharkhand	0.03	2.52				2.55
12	Karnataka	12.59	6.71		8.40	0.09	27.79
13	Kerala	3.18	3.52				6.70
14	Madhya Pradesh	13.95	2.26				16.21
15	Maharashtra	12.07	2.83	0.10	2.90	5.21	23.12
16	Manipur	0.75	3.05			0.45	4.26
17	Meghalaya	1.06	4.99	0.04			6.09
18	Mizoram	0.99	5.03	0.05			6.07
19	Nagaland	0.36	2.02				2.38
20	Orissa	13.92	0.83				14.75
21	Punjab	1.20	1.46				2.66
22	Rajasthan	0.15	12.53			0.01	21.03
23	Sikkim	1.64	4.32	0.10			6.06
24	Tamil Nadu	1.57	4.84	0.07		0.02	6.51
25	Tripura	0.86	6.43				7.29
26	Uttar Pradesh	4.26	12.58	0.08			16.92
27	Uttaranchal	0.57	19.72	0.11			20.40
28	West Bengal	23.15	12.53		3.41	0.32	39.41
29	Andaman and Nicobar		3.26				3.26
30	Chandigarh		0.24				0.24
31	Dadra and Nagar Haveli						0.00

1	2	3	4	5	6	7	8
32	Daman and Diu						0.00
33	Delhi						0.00
34	Lakshadweep						0.00
35	Pondicherry		0.12				0.12
36	Others	44.38	11.14		24.23	0.29	80.04
	TOTAL:	183.52	164.30	2.19	43.16	8.63	410.14

Assistance for schemes of Ministry of NRE

†2219. SHRIMATI MAYA SINGH: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the names and the details of schemes being implemented by the Ministry, State-wise;

(b) the schemes being implemented, out of them, in Madhya Pradesh;

(c) whether Government provide financial assistance to States for implementation of its schemes; and

(d) if so, the financial and technical assistance provided during the last three years, State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) and (b) Details of schemes/ programmes being implemented in the country, including Madhya Pradesh, and cumulative achievements under the same as on 31.03.2007 are given in Statement-I (*See* below).

(c) and (d) Yes, Sir. State-wise details of central financial assistance provided under various renewable energy schemes/programmes during the last 3 years, *i.e.*, 2004-05, 2005-06 and 2006-07 are given in Statement-II.

Statement-I

State-wise details of schemes/programmes being implemented and cumulative achievements as on 31.03.2007

A. Grid-Connected Renewable Power

Sl. No.	States/UT	Small Hydro Power	Wind Power	Bio Power		Solar Power	Total Capacity
				Biomass Power	Waste to Energy		
		(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	2	3	4	5	6	7	8
1	Andhra Pradesh	178.85	122.40	301.25	28.50	0.10	631.10

†Original notice of the question was received in Hindi.